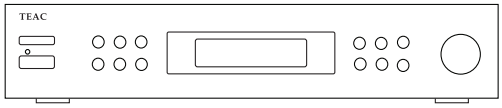
TEAC



SERVICE MANUAL

T-R610DAB

DAB/FM Tuner

COMPACT disc DIGITAL AUDIO

NOTES

- PC board shown are viewed from parts side.
- The parts with no reference number or no parts number in the exploded views are not supplied.
- As regards the resistors and capacitors, refer to the circuit diagrams contained in this manual.
- ⚠ Parts marked with this sign are safety critical components. they must be replaced with identical components - refer to the appropriate parts list and ensure exact replacement.
- Parts of [ ] mark can be used only with the version designated.
  [E]: Europe [UK]: U.K

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1 SPECIFICATIONS 2
2 EXPLODED VIEW AND PARTS LIST 3
3 PC BOARDS AND PARTS LISTS 5
4 WIRING DIAGRAM 9
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T-R610DAB

1 SPECIFICATIONS

DAB Section

Tuning Range
Band III : 5A to 13F (174.928 MHz to 239.200 MHz)
L-Band: LA to LW (1452.960 MHz to 1490.624 MHz)

Usable Sensitivity:	-80 dBm
Frequency Response:	20 Hz - 20 kHz (+0.1 dB/-0.3 dB)
Distortion:	0.08 %
Signal-to-Noise Ratio:	100 dB
Digital Output Sampling Rate:	48 kHz

FM Section

Tuning Range:	87.5 MHz to 108.0 MHz (50 kHz steps)
Usable Sensitivity:	26 dBu
Frequency Response:	20 Hz - 15 kHz (+0.5 dB/-3 dB)
Capture Ratio:	2 db (at 98 MHz)
Distortion:	Mono: 0.2% Stereo: 0.3%
Signal-to-Noise Ratio:	Mono: 50 dB Stereo: 45 dB
Aerial Input Impedance:	50 ohm (F-type)

GENERAL

Power Requirements:	AC230V, 50 Hz
Power Consumption:	8 W
Dimension (W x H x D):	435 x 96 x 308.5 mm
Weight: (net)	2.95 kg

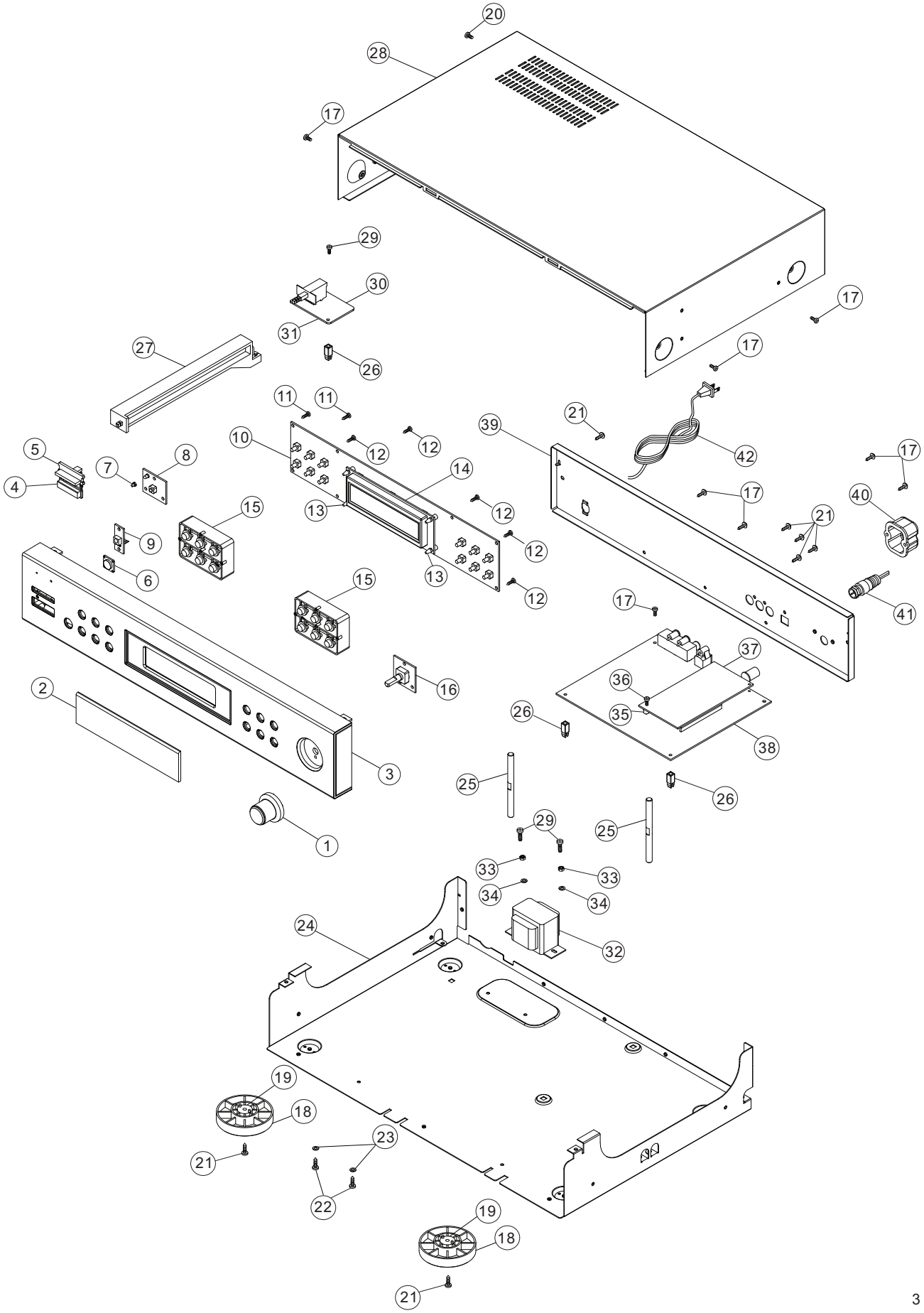
Standard Accessories:

Remote Control Unit x 1
DAB/FM type Antenna x 1
Batteries (AA) x 2
RCA cable x 1
Owner's Manual x 1
Warranty Card x 1

- Design and specifications are subject to change without notice.
- Illustrations may differ slightly from production models.
- Weight and dimensions are approximate.

3. EXPLODED VIEWS AND PARTLIST

EXPLODED VIEW-1



T-R610DAB

EXPLODED VIEW-1

REF. NO		PARTS NO.	DESCRIPTION	REMARKS
1-1		6047-002402E000	VOLUME KNOB	
1-2		6047-002407E000-01	LCD LENS	
1-3		6047-002401E000-01	FRONT PANEL	
1-4		6047-002404E000	STANDBY KNOB	
1-5		6047-002405E000	POWER KNOB	
1-6		6047-002410E000	IR LENS	
1-7		6047-002408E000	LED LENS	
1-8		9447-024000E111	STANDBY PCB ASSY	
1-9		9461-024000E081	IR REMOTE PCB ASSY	
1-10		9447-024000E041	CONTROL PCB ASSY	
1-11		7003-006002E112	SCREW M3x6 P.T.P. B/H	
1-12		7003-008002E112	SCREW M3x8 P.T.P. B/H	
1-13		6600-220113E000	PLASTIC STANDOFF PIONEER-TECH	
1-14		4006-160021E800	LCD PCBA #CBC016002AY00-FFW-R	
1-15		6047-002403E000	BUTTON	
1-16		9447-024000E121	ENCODER PCB ASSY	
1-17		7003-006001E111	SCREW M3x6 S.T.P. B/H (BLK)	
1-18		6011-000118E000	CD-P1100 LEG	
1-19		6600-070010E001	CD-P1100 RUBBER PAD	
1-20		7003-006001E221	SCREW M3x6 STP. B/H (BLK)	
1-21		7003-008002E111	SCREW M3x8 P.T.P. B/H (BLK)	
1-22		7003-010010E111	SCREW M3x10 M.C. B/H (BLK)	
1-23		7103-206005E022	METAL WASHER 3.2x6x0.5	
1-24		6547-002401E000	BOTTOM CABINET	
1-25		6042-030109E000	SUPPORTING COLUMN	
1-26		6090-050113E000	PCB MOUNT (STAND OFF)	
1-27		6011-000103E002	POWER BAR	
1-28		6547-002404E000-01	TOP CABINET	
1-29		7002-616002E112	SCREW M2.6x16 P.T.P. B/H	
1-30		9447-024000E071	POWER PCB ASSY	
1-31		4081-110001E001	INSULATION SHEET	
1-32	⚠	3200-080641E000	TRANSFORMER EI-41 230V	
1-33		6600-120030E001	NUT M3 HEX	
1-34		7103-010005E022	METAL WASHER 3.3x10x0.5	
1-35		6047-002411E000	PLASTIC STUD	
1-36		7002-012002E112	SCREW M2x12 PTP. B/H ZN	
1-37		4006-112000E007	DAB PCBA UNIT #GYRO-1120	
1-38		9447-024000E011	MAIN PCB ASSY	
1-39		6547-002402E000-01	REAR PANEL	
1-40		6047-002412E000	ANTENNA COVER	
1-41		2616-230003E800	SPEC RF ANTENNA WIRE - WHT	
1-42		2610-218309E029	AC POWER COED 1830MM - VDE [E]	
		2610-218309E005	AC POWER COED 1830MM - BSI [UK]	

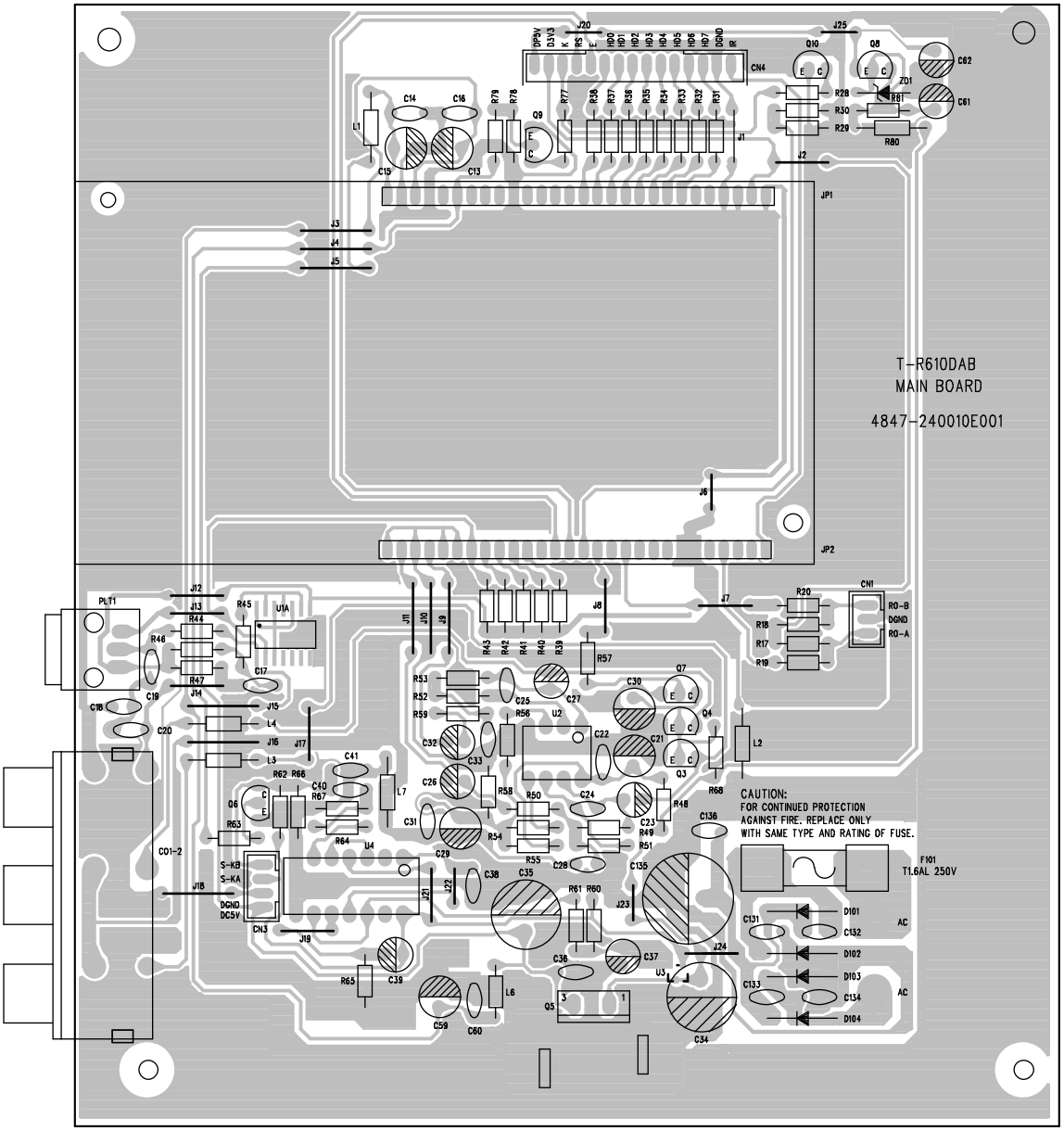
3 PC BOARDS AND PARTS LIST

MAIN PCB ASSY

REF. NO		PARTS NO.	DESCRIPTION	REMARKS
		9447-024000E011	MAIN PCB ASSY	
		4847-240010E001	MAIN PCB	
C01-02		2330-007909E000	RCA JACK 3P #AV3-8.4-14/EC	
C35	⚠	1102102014E000	E.CAP 1000UF/16V	
C135	⚠	1102-222024E000	E.CAP 2200UF/25V	
CN1		2300-003000E001	STRAIGHT CONN WAFER 3PIN 2MM	
CN4		2300-015000E000	STRAIGHT CONN WAFER 15PIN 2MM	
D101-104		1401-140040E000	RECTIFIER DIODE 1N4001	
F101	⚠	4030-160250E000	FUSE T1.6A L250V	
JP1,JP2		2350-028001E000	28 PIN STRAIGHT SOCKET 2MM	
L1,2,3,4,7		1503-000000E100	BEAD COIL FB-35608	
L6		1504-100300E100	AXIAL INDUCTOR 10UH	
PLT1		4300-179000E000	APTX179AT FIBER OPTIC TRANSMITTING MODULE	
Q3,4,7,9,10		1300-901400E100	TR - 9014C	
Q5		4178-050334E700	IC - L7805CV	
Q8		1300-805000E100	TR - 8050D	
U1A		4174-040103E000	IC - TC74HCU04AFN	
U2		4145-580051E601	IC - NJM4558D	
ZD1		1402-560000E000	ZENER DIODE 5.6V	

T-R610DAB

MAIN PCB



CONTROL PCB ASSY

REF. NO	PARTS NO.	DESCRIPTION	REMARKS
	9447-024000E041	CONTROL PCB ASSY	
	4847-240040E001	CONTROL PCB	
CN2	2370-016300E002	STRAIGHT SINGLE HEADER 16PIN 2.5MM	
CN5	2300-005000E000	STRAIGHT CONN. WAFER 5PIN 2MM	
CN6	2300-003000E000	STRAIGHT CONN. WAFER 3PIN 2MM	
LCD1	4006-160021E800	LCD PCBA #CBC016002AY00-FFW-R	
SW1-SW12	2400-020200E001	TACT SW 2P2T #KPT-1105B	

IR REMOTE PCB ASSY

REF. NO	PARTS NO.	DESCRIPTION	REMARKS
	9461-024000E081	IR REMOTE PCB ASSY	
	4861-240080E101	IR REMOTE PCB	
IR1	3001-203801E000	INFRARED SENSOR IRM-2638B	

ENCODER PCB ASSY

REF. NO	PARTS NO.	DESCRIPTION	REMARKS
	9447-024000E121	ENCODER PCB ASSY	
	4847-24012E001	ENCODER PCB	
EN1	2409-020200E007	ROTARY ENCODER EC-12E24204A9	

STANDBY PCB ASSY

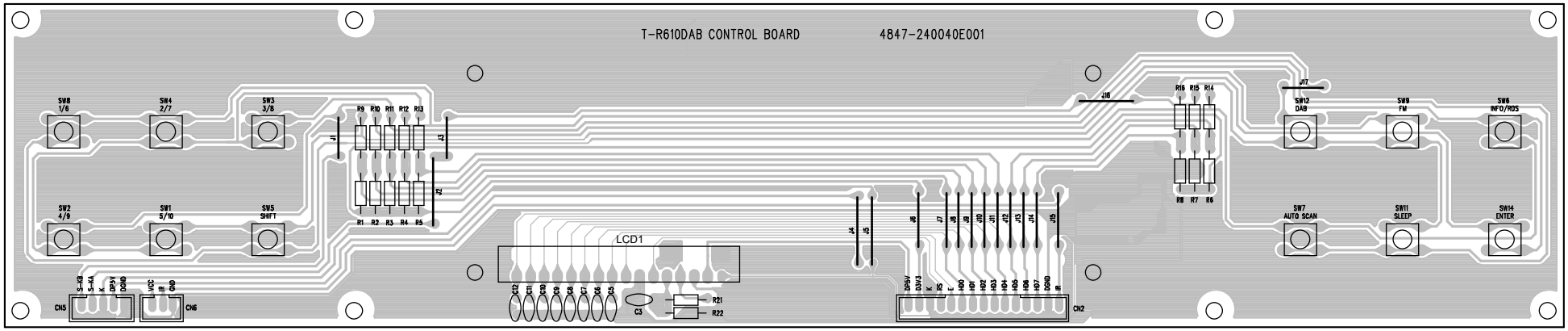
REF. NO	PARTS NO.	DESCRIPTION	REMARKS
	9447-024000E111	STANDBY PCB ASSY	
	4847-240110E001	STANDBY PCB	
D1	3100-224000E000	LED ORANGE 3MM	
Q1	1300-901400E100	TR - 9014C	
Q2	1301-901500E100	TR - 9015C	
SW13	2400-020200E000	TACT SW 2P2T #KPT-1105A	

POWER PCB ASSY

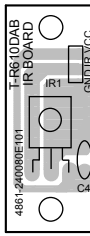
REF. NO	PARTS NO.	DESCRIPTION	REMARKS
	9447-024000E071	POWER PCB ASSY	
	4847-240070E001	POWER PCB	
S101	2401-010100E009	POWER SWITCH 1P1T #PS3-22SPA-W4CZ	

T-R610DAB

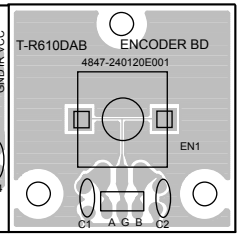
CONTROL PCB



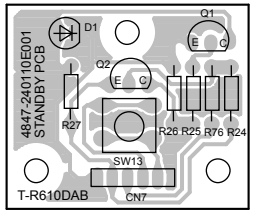
IR PCB



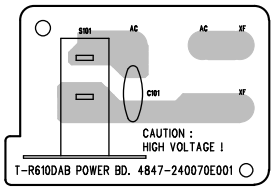
ENCODER PCB



STANDBY PCB

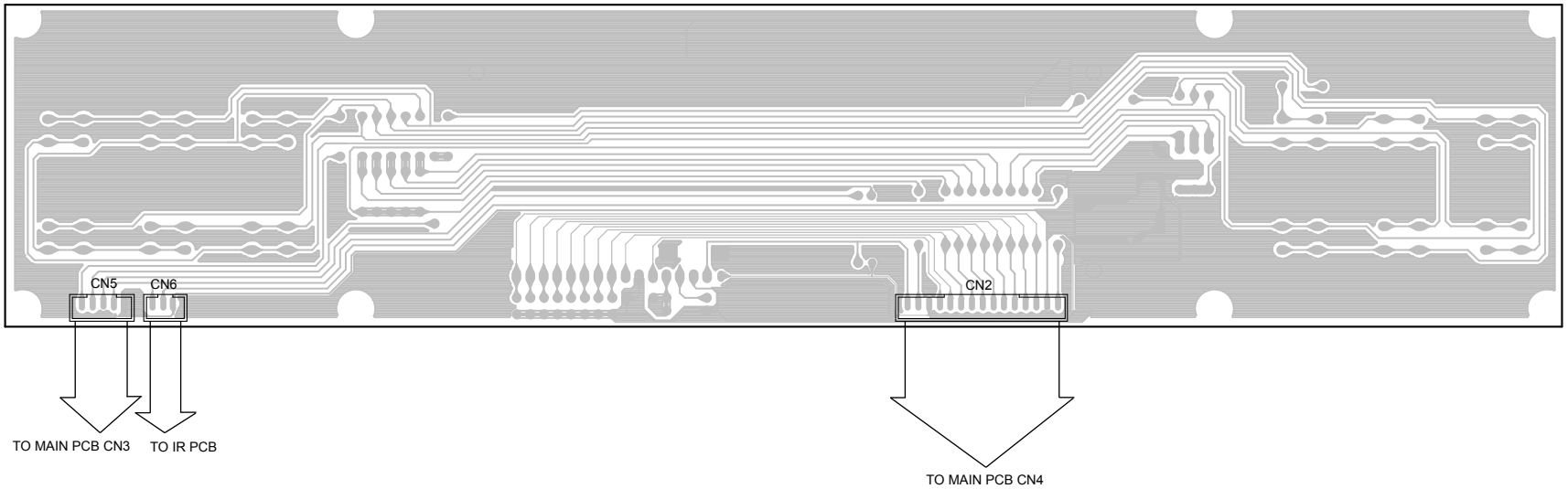


POWER PCB

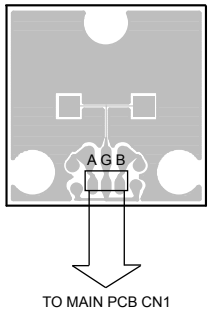


4 WIRING DIAGRAM

CONTROL PCB



ENCODER PCB



5 INCLUDED ACCESSORIES

INCLUDED ACCESSORIES

REF. NO	PARTS NO.	DESCRIPTION	REMARKS
	5100-610240E000	INSTRUCTION BOOK - E/F/G/I	
	4090-150000E000	BATTERY AA SUM3 1.5V	
	2611-310009E000	1000MM AUDIO CABLE PVC-2P	
	9805-470000E001	REMOTE CONTROL	

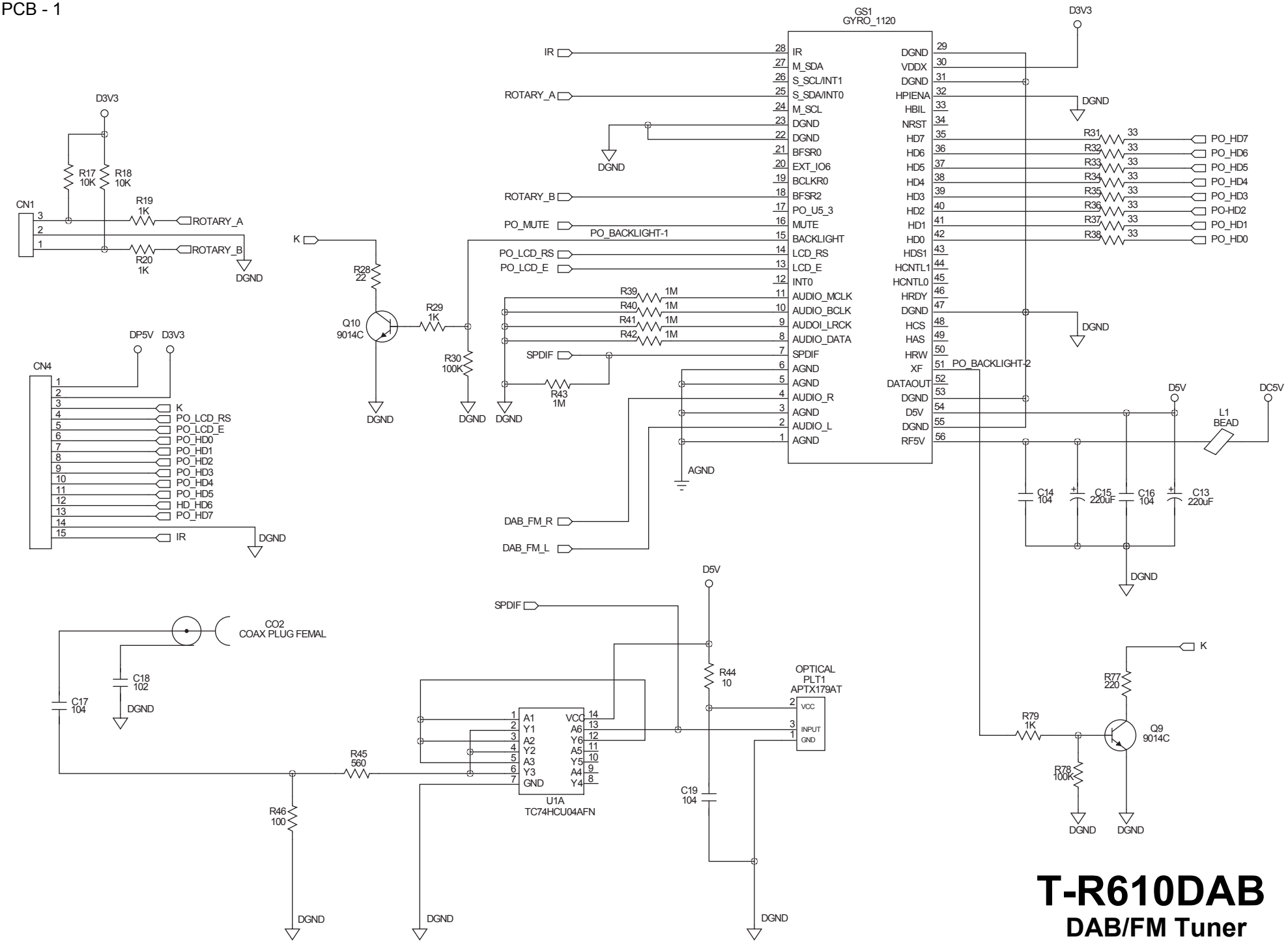
T-R610DAB

TEAC

TEAC CORPORATION	3-7-3 Nakacho, Musashino-shi, Tokyo 180-8550, Japan Phone:(0422)52-5081
TEAC AMERICA, INC.	7733 Telegraph Road, Montebello, California 90640 Phone: (323)726-0303
TEAC CANADA LTD.	5939 Wallace Street, Mississauga, Ontario L4Z 1Z8, Canada Phone: (905)-890-8008
TEAC MEXICO, S.A.De C.V.	Campesinos N°184,Colonia.Granjas Esmeraida, Delegacion Iztapalapa,CP 09810,Mexico DF Phone: (525)-581-5500
TEAC UK LIMITED	Unit 19 & 20, The Courtyards, Hatters Lane, Watford, Hertfordshire, WD18 8TE5, U.K. Phone:(0845) 130-2511
TEAC EUROPE GmbH	Bahnstrasse 12, 65205 Wiesbaden-Erbenheim, Germany Phone: 0611-71580
TEAC ITALIANA S.p.A.	Via C, Cantu 9/A, 20092 Cinisello Balsamo, Milano, Italy Phone:02-66010550
TEAC AUSTRALIA PTY., LTD. A.B.N. 80 005 408 462	280 William Street, Melbourne VIC 3000, Australia Phone:(03)9672-2400

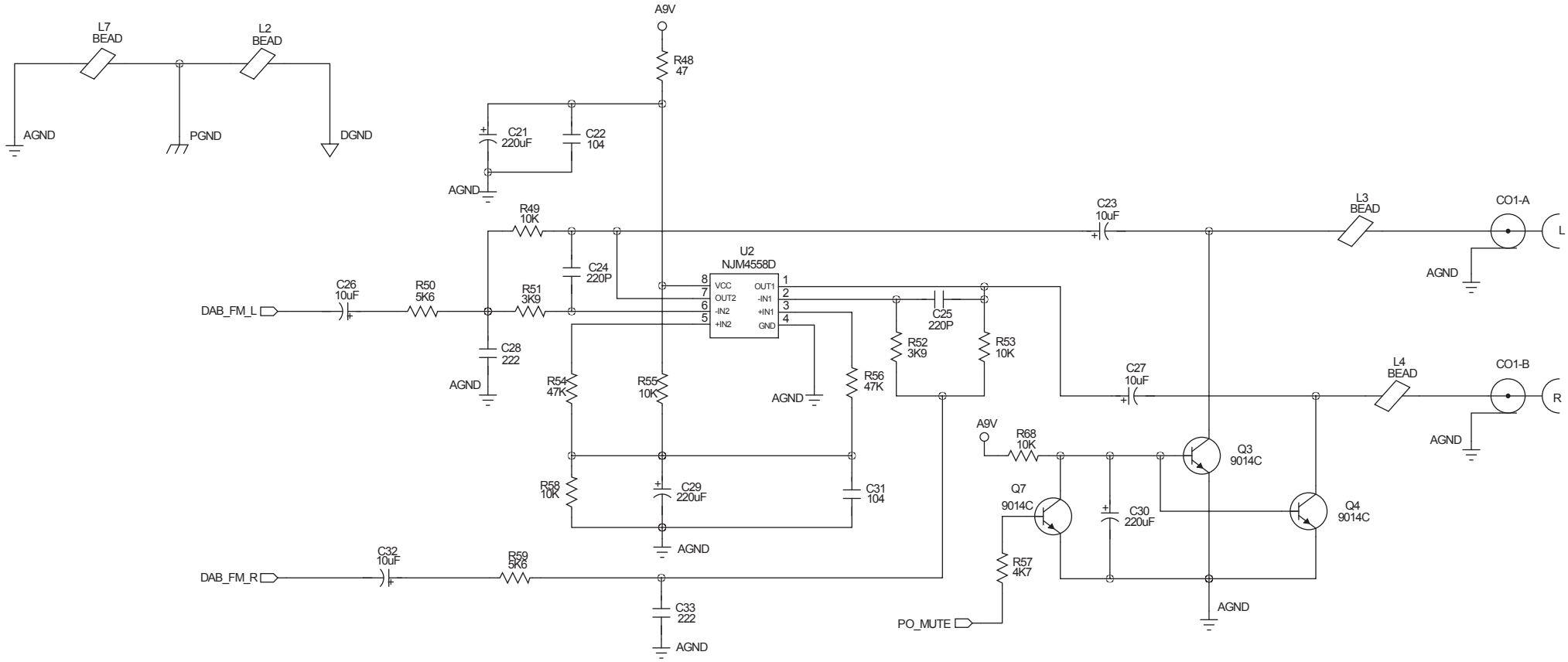
JAN 2007

PREPARED IN HONG KONG



T-R610DAB

DAB/FM Tuner



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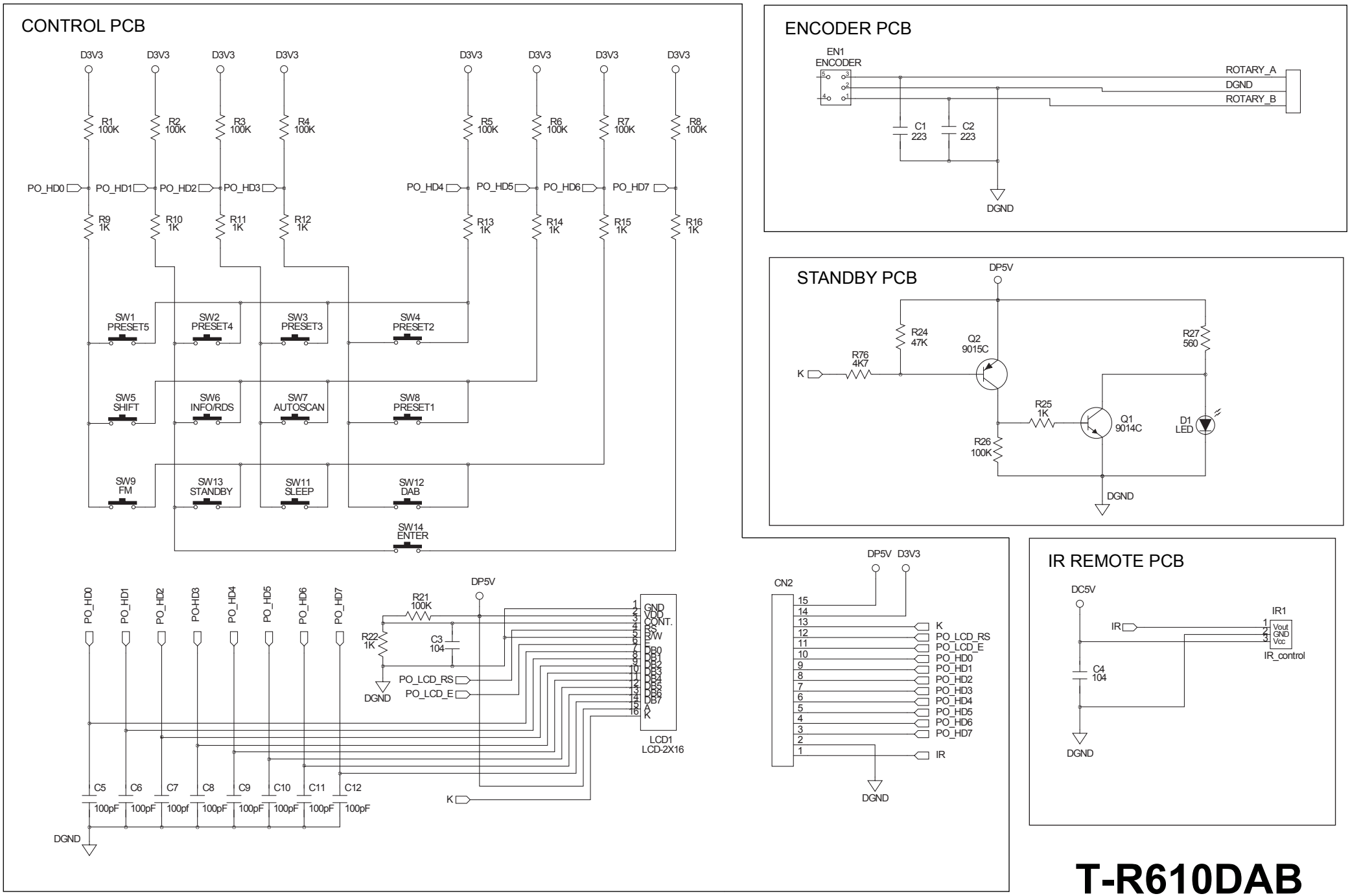
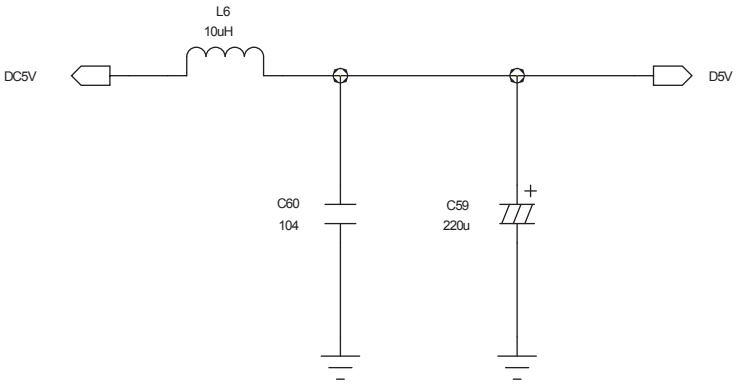
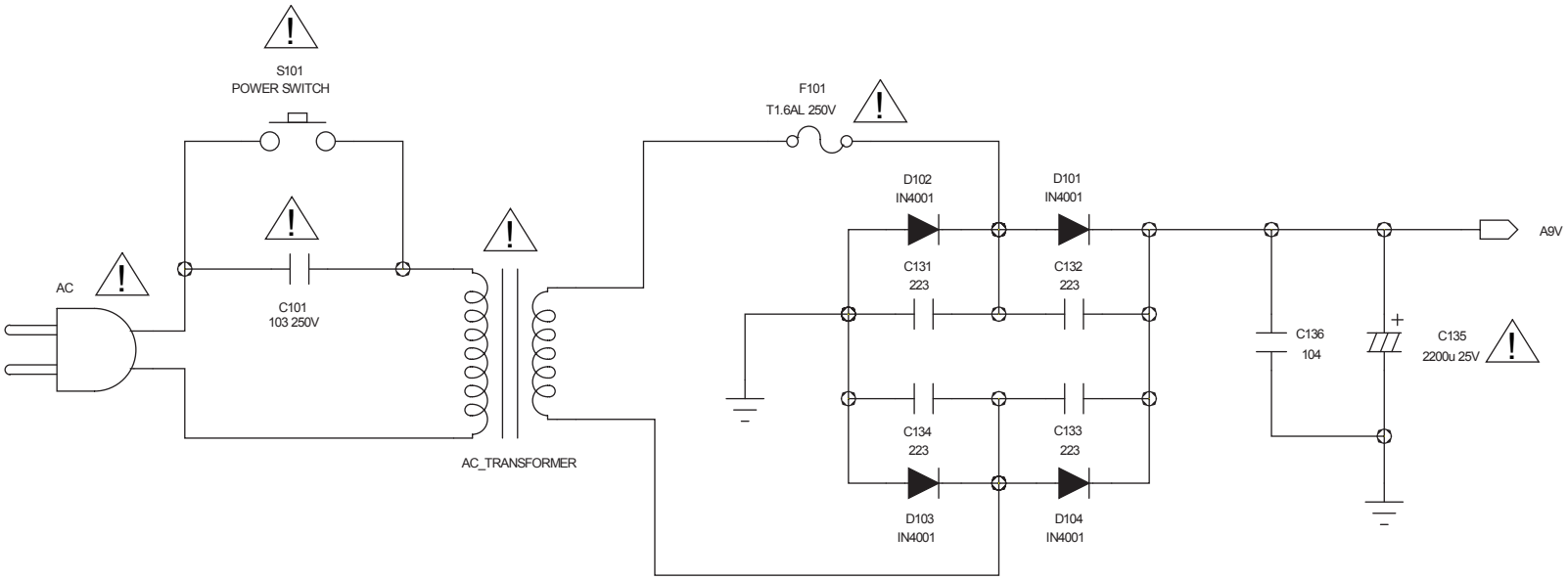


T-R610DAB

DAB/FM Tuner

POWER PCB





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DAB/FM Tuner